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WASTE OF FORESTS

Lessened by the Introduction of Improved Machinery.

ALL PARTS OF TREE UTILIZED

Complete Revolution Not Only in the Methods of Handling the Log But in Reducing the Stumpage Waste as Well.

WASHINGTON, D. C., Jan. 15.—The men of no industry recognize the importance of practicing economy in the utilization of product more than the lumbermen of this country. Such has not always been the case, but the rapid depletion of the forests during the past decade and the consequent advance in stumpage prices has made necessary the reduction of waste in order to insure the propriety of the business. So far, aside from reducing waste in the woods, practically all efforts have been directed to better utilization of the log of the tree through the introduction of machinery which works up the product with less waste.

Lumbermen have for years been perfecting their machinery so as to reduce the waste in manufacturing logs into lumber. The old-fashioned, vertical, stiff-back saws which were operated by water power made a cut almost half an inch wide. Then came the circular saws, which greatly increased the speed of sawing, and reduced the waste in kerf. These have now been supplanted by modern band saws, which in some cases make a cut of not more than 1-8 of an inch wide, and revolves with tremendous speed. With the saw, all of the other parts of mill machinery have shown marked improvement.

This condition has been brought about by the ever increasing demand for greater economy and cheaper and quicker methods of manufacture. Waste in lumbering has always been an important consideration, but has become far more so of late on account of the very rapid depletion of the forests. Competition has also greatly increased until it is only those lumbermen who have kept pace with modern conditions that are able to operate with success.

These changed conditions have completely revolutionized the logging methods of several of the largest lumber companies in the South. Instead of felling the tree and sawing it into logs in the woods, they simply trim off the branches, and haul in the whole tree. It is then thrown into a log pond, picked up on endless chains, and sawed into logs of any desired length. One concern in the South with which the Forest Service has been cooperating has built a separate mill for this purpose. The savings in the actual merchantable contents and cost of manufacture are considerable, and more than pay for the initial and upkeep costs of the mill.

Another feature of the business which is just beginning to be thoroughly appreciated is the manufacture of the logs of different sizes into definite products. Thus, where formerly boards were sawed from logs of any diameter, many lumbermen are now beginning to use only the larger logs for this purpose. The smaller logs are sawed into those commodities which require little handling and cost of manufacture, such as posts, poles, railroad ties, etc.

Railroad companies want heart long-leaf pine for their cross-ties, and in the past have had little difficulty in getting them. Now, however, many lumbermen

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absolutely refuse to furnish them, but take the logs of this quality and saw them into more valuable grades of lumber. Heart longleaf pine ties are likely therefore, to go out of use, and their place be taken by the ties sawed from small trees and surfaced on two sides only. Such ties are admirably adapted to preservative treatment, because they are entirely surrounded by sapwood, and this readily absorbs preservatives. Moreover, a tie cut from a small tree, when treated with a preservative, is far more durable than an untreated tie cut from heartwood, and although its initial cost is somewhat greater, its final cost is considerably less. Manufacture of logs of certain sizes into definite products is therefore getting to be of increasing importance.

While the principal advances in the closer utilization of the tree, so far, have been made in working up the log to better advantage, other reductions in waste will come through the use of every part of the tree which can be handled with profit. Varied commercial interests over the country have made good success in the last few years in reducing the enormous waste of forest products by treating with preservatives woods which are of little value in their natural state, reducing the height of the stump, using the tree higher up into the top, and utilizing for various by-products many parts which were formerly wasted. The government, through the United States Forest Service, has taken a prominent part in these experiments, and the knowledge gained has been placed at the disposal of the business men of the country who are interested.

STEVENSON'S WORKS TO BE SOLD.

Auction to be Held in New York on January 30 and 31.

NEW YORK, Jan. 15.—There will be sold at auction in New York on Thursday and Friday the 30 and 31st, what is to be the most complete work of Robert Louis Stevenson in existence. The collection was made by George M. Williamson of Grandview-on-the-Hudson.

Edmund Gosse, the great critic, in a letter to Mr. Williamson said:

"I have been greatly enjoying the Bibliography of your Stevenson collection, which is stupendous. You must save the best in the world." Almost every book that is not a presentation copy with the author's autograph has an autograph letter inserted. Among them are many volumes which Stevenson presented to his old nurse, Alzoin Cunningham and which she sold after his death. Each one had a dedication to the old nurse in the author's handwriting. Among the relics in the collection are:

A fine copy of a first edition of his first work, "The Lantland Rising," Edinburgh, 1866.

A first edition of his second publication, "The Charity Bazaar," signed in full by him, Edinburgh, 1868.

The only known copy of "The Surprise," a 12 mo. leaflet of four pages, edited and published by E. L. Osborne & Company, 1880, with an advertisement which reads:

"Neth (sic) to the Sickly, Professor Stevenson, with the aid of God's Sun and Mankind's refined olive oil will pluck the sufferers from the jaws of death."

First published edition of the story of Alié, 12 mo. wrappers uncut, London, 1882. Owing to a dispute about copyright this work was withdrawn before publication and is very rare. An edition of "Kidnapped" with a letter inserted from C. Baxter one of Stevensons executors, says:

"You may, I am sure, feel certain that no other copy exists."

"Ticonderoga," of which only two copies were printed, one of which was presented by Stevenson to King Kalakaua and the other the present copy was given by the printers to the late Mr. B. G. Foote.

"Ole Sula Samoa," a missionary magazine with the "Bottle Imp" in Samoan, numbers 10 to 16, May to November, 1881. Only three copies known.

This was the first serial story ever read by the Samoans in their language and as a result they ever afterward called Stevenson "Yusitala," which means the "Letter of Tales."

MENTALLY UNSOUND.
(Continued from page 1)

The telephone told of Thaw putting in 75 calls one morning at the Grand Hotel, and then forgetting all about them. The butler told many details of Thaw's life at home in 1903. He was still under examination when adjournment was taken. Separate incidents of the alleged irrational conduct on the part of the defendant was being put into evidence by Littleton as foundation for the expert testimony that is to come. He also hopes to accumulate such a mass of testimony as to Thaw's conduct as to make it impossible for the district attorney to fulfill the task of proving Thaw sane beyond every possible doubt.

Criminal lawyers of prominence who are following the case outlined by the defense and who are taking into consideration the fact that a specific plea of insanity has been entered this year declare that acquittal under the circumstances can come only with the added clause: "On account of insanity of the defendant at the time the act was committed." This, it is declared, would compel the court to commit Thaw to the Matteawan Asylum, whence a fight would prove his present sanity and thus gain his freedom would have to be gathered through habeas corpus proceedings.

NEW YORK, Jan. 15.—The skeletons of the Thaw ancestry, the basis for the defense of insanity in the trial of Harry K. Thaw for the killing of Stanford White, will continue to be exhibited in court today. Relentlessly the attorneys for the defense are laying bare the history of the Thaw family, on both the father's and mother's side, which was only hinted at in the former trial. Then the defense was a "brain storm" now it is hereditary insanity, an insanity which the defense has stated began long before Harry Thaw was born and which, up to the present, at least, they have not attempted to put an end to. Whether, later they will claim that Thaw is now sane is a matter wholly for speculation.

A man whose school classes Harry Thaw attended when he was a boy, and a woman who nursed him when he was ill in Monte Carlo years ago, have already been called to the witness stand, and have told of the actions which they believed showed Thaw mentally unsound. The defense has promised to put forward several other witnesses to testify to his mental condition long before the night of the tragedy on the Madison Square Garden roof and it is probable that some of these witnesses will be called today. Mr. Littleton is beginning at the very earliest period of Thaw's life possible, and will so far as he can, introduce his evidence in chronological order, down to the night of the killing. Mrs. Mary Thaw, the defendant's mother, it is announced, will come to New York in spite of a serious illness and will again testify in an attempt to save her son from the electric chair. At the former trial her testimony was of minor importance and she was compelled by her son's lawyers to leave the stand before she had told all that she wanted to tell. Whether or not she will now be allowed to go further into the story of the insanity in her family cannot be told until she takes the stand.

USE FOR BELMONT TUNNEL.

NEW YORK, Jan. 15.—A use for the Belmont tunnel which runs under the East River, from the foot of 42nd Street to Long Island City, has been found at last, according to the story which is in circulation in railroad circles but which still lacks confirmation. It is said that the New York Central road has made arrangements with the company owning the tunnel by which all the express trains will be run under the river to Long Island City, where 80 acres of land was recently acquired and which will be used by the railroad for storing rolling stock. According to the story, express trains are to be run from Spuyten Duyvil to 42nd Street by way of 11th Avenue and thence by way of a new tunnel to be constructed to the tube under the river. The tracks on Eleventh Avenue are now used exclusively for freight and must soon be lowered. It is said that by running express trains by this route they would not only escape the great local and third rail traffic which now runs on the Park avenue line, but the time to the Grand Central station would be lowered by half an hour. By using the Belmont tube and the terminal at Long Island City, much time would also be saved, the terminal being only two miles from Grand Central Station, while the present storage grounds are five miles from the station, and necessitate the moving of trains over crowded tracks.

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Known Quality, Known Excellence and Known Component Parts and has won the valuable patronage of millions of the Well Informed of the world, who know of their own personal knowledge and from actual use that it is the first and best of family laxatives, for which no extravagant or unreasonable claims are made.

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HOUSE CODIFYING PENAL BILL.

No Heated Arguments Were Characterized as on Previous Debates.

WASHINGTON, Jan. 15.—So persistent has been the efforts in the House to amend the bill codifying the penal code that the committee on the revision of the laws today consented to let down the bars and as a result the measure was changed in some important particulars. The pacific attitude of the committee in this regard served to modify the opposition to the measure and in consequence proceedings today were devoid of heated arguments which have characterized the previous debates. When the house adjourned there were pending a number of important amendments which seemed to meet with no particular opposition by the committee but which were passed over until tomorrow in order that the members might have time to consider them carefully. Portions of the bill which attracted the most attention were those covering the giving and accepting of bribes by Senators and members and the sale of endorsements or support for appointive offices. It is to the amendments touching these questions the House tomorrow will devote itself upon resuming consideration of the bill.

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The backaches at times with a dull, indescribable feeling, making you weary and restless; piercing pains shoot across the region of the kidneys, and again the loins are so lame to stoop is agony. No use to rub or apply a plaster to the back in this condition. You cannot reach the cause. Exchange the bad back for a new and stronger one.

Mrs. Nancy Sewell, living on Jefferson street, Hillsboro, Ore., says: "I have used Doan's Kidney Pills and think very highly of them. My kidneys were too frequent in action and forced me to arise many times during the night. My back was so sore and lame that I could not stoop or bend over. I tried liniments and plasters, but without any good results. At last Doan's Kidney Pills were brought to my attention and I procured a box. In a short time, the pains left my back and my kidneys were restored to their normal and natural condition. I am now well and free from kidney trouble and do not hesitate to recommend Doan's Kidney Pills to other sufferers."

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